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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,638	11/18/2003	Dan Forsberg	0172.42240X00	3251
20457 7:	590 05/12/2005	EXAMINER		
	I, TERRY, STOUT & KF SEVENTEENTH STREET	NOBAHAR, A	NOBAHAR, ABDULHAKIM	
SUITE 1800	SEVENTEENTH STREET		ART UNIT	PAPER NUMBER
ARLINGTON,	VA 22209-3873		2132	
			DATE MAILED: 05/12/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)			
	10/714,638		FORSBERG, DAN			
Office Action Summary	Examiner		Art Unit			
	Abdulhakim	Nobahar	2132			
The MAILING DATE of this communication Period for Reply	appears on the c	over sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, n. a reply within the statutor eriod will apply and will estatute, cause the applica	however, may a reply be tim y minimum of thirty (30) days xpire SIX (6) MONTHS from tion to become ABANDONED	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) filed on	28 February 2005					
· - · -	2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice und	der Ex parte Quay	de, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims						
4) Claim(s) is/are pending in the appli	cation.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-48</u> is/are rejected.						
7) Claim(s) is/are objected to.		languaga a sak				
8) ☐ Claim(s) are subject to restriction a	na/or election req	unement.				
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10) The drawing(s) filed on is/are: a)	accepted or b)	objected to by the E	Examiner.			
Applicant may not request that any objection to	• • •	·	···			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by th	ie Examiner. Note	the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:	eign priority unde	r 35 U.S.C. § 119(a)	-(d) or (f).			
1.☐ Certified copies of the priority docur	nents have been	received.				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the			ed in this National Stage			
application from the International Bu	•		ي.			
* See the attached detailed Office action for a	a list of the certifie	a copies not receive	a.			
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary				
Notice of Draftsperson's Patent Drawing Review (PTO-944 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	B/08) 5	Paper No(s)/Mail Da)	atent Application (PTO-152)			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Offi	ice Action Summary		Part of Paper No./Mail Date 050905			

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Response to Arguments

1. This communication is in response to applicants' amendment received on February 28, 2005.

- 2. Applicants' arguments have been fully considered but they are not persuasive.
- 3. Applicants on page 4 of the remarks argue that "each of the independent claims 1, 31 and 40 substantively recites establishing a secure tunnel which provides connection between the user equipment and one of the network entities and authenticating the user equipment with another of the network entities which occurs at least partially simultaneously with the establishing of the secure tunnel. This subject matter has no counterpart in Zhang et al." and on page 5 of the remarks argue that "The IPSEC protocol is described as performing encryption between the mobile terminal 110 and only the wireless access point 120 which cannot anticipate the claimed different network entities which are involved with tunneling and authentication."

In response to above applicant's argument, it is noted that Zhang discloses a secure communication system between a mobile terminal (MT) and network server over an insecure network infrastructure that uses IPSEC protocol (a leading tunnel protocol) to establish a secure channel (i.e., a secure tunnel) (see Fig. 1; [0029]; [0043]; [0045]; [0058]). Zhang discloses a server at an access point for secure communication with the MT and an authentication server, which is a different entity from the access server for

the purpose of authenticating MT (see [0073]). Zhang further discloses that MT starts encrypting operation (i.e., establishing a tunnel using IPSEC) at step 6 of the authentication process (see [0074]-[0082]). This means that portion of the authentication process occurs while a secure channel between an MT and an access server is established (i.e., partially simultaneously).

4. In light of the above submission the previous claim rejection under 35 USC § 102 is maintained.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhang et al (2002/0174335 A1).

Regarding claims 1-3, 6-8, 31-33, 36 and 40-42, Zhang discloses a method for providing authentication, authorization and accounting (AAA) transactions in a wireless

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network (see, for example, abstract and [0028]). Zhang discloses that a mobile terminal (MT) receives services from an Internet service provider (ISP) having an authentication server through an access point (AP) (corresponding to the recited access network) with a server (see, for example, Fig. 1 and [0073]). Zhang also discloses that a secure channel (i.e., secure tunnel) is established between the MT and the AP (see, for example, [0025], [0026], [0043] and [0045]). Zhang further discloses that in one embodiment IPSEC is used for per-packet encryption between a MT and an AP (see, for example, [0029], [0067] and [0068]). In this embodiment every packet is encrypted and authenticated. As Fig. 2 and the procedure explained at [0073] through [0082] demonstrate that all transmitted messages are encrypted (corresponding to the recited establishing of the secure tunnel) while (corresponding to the recited at least partially simultaneous) authentication of a MT is being performed. This means that authentication process starts right after a secure channel is established.

Regarding claims 4-5, 34-35, 39, 43-44 and 48, Zhang discloses that the preferred embodiment of his invention provides a mechanism to prevent a denial of service attack by a hacker during the authentication of a user after establishing a secure channel. This is done by APs making intelligent decision while relaying user authentication certificate (corresponding to the recited a request for an identification of the user equipment). Zhang also discloses that IPSEC is used for the communication between the user and AP to ensure data integrity (corresponding to the recited a

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request for capability of the user equipment to support at least one data protocol) (see, for example, [0065]-[0067]).

Regarding claims 9-10 and 45, Zhang discloses that both the AP and the service provider (i.e., an ISP) each include a server in their networks (see, for example, [0055] and [0073]).

Regarding claims 11-20, 37 and 46, Zhang discloses that the messages transmitted between a mobile user and an AP network are encrypted (corresponding to the recited the secure tunnel is established) and the communication is performed between the mobile user equipment and a server that is included in the AP network (see, for example, [0045], [0073] and Fig. 2, NASP).

Regarding claims 21-23, 26-27, 38 and 47, Zhang discloses that a mobile user connection with an AP network is a wireless connection (see, for example, [0055]).

Regarding claims 24-25, these claims are rejected as applied to the like elements of claims 4 and 5 as stated above.

Regarding claims 28-30, Zhang discloses that a roaming user accesses an ISP or a home network through a local network (i.e., an access or visited network) see, for example, [0047], [0051] and [0060]).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 571-272-3808. The examiner can normally be reached on M-T 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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AN a.n

May 9, 2005

Abdulhakim Nobahar Examiner Art Unit 2132

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100